SOV/65-58-10-11/15

AUTHORS:

Maslov, P. G. and Maslov, Yu. P.

TITLE:

Heat of Formation of Halogen-Substituted Methane and Ethylene (Teploty obrazovaniya galoidzameshchennykh

metana i etilena)

PERIODICAL:

Khimiya i Tekhnologiya Topliv 1 Masel, 1958, Nr 10,

pp 50 - 55 (USSR)

ABSTRACT:

The authors recently described a method for calculating the thermodynamic properties of halogen-substituted methane and other compounds (Ref.10) at temperatures varying between 100 to 1500°K, and now give details of a method for calculating the heat of formation ΔH_f^0 for halogen-substituted methane and ethylene at 25°C. Results obtained by this method conform with data given by other authors (Refs. 13 - 25). The accuracy of the calculated results varies between 0 to 5%, and in some cases 10%. The heats of formation of halosubstituted methane in the gaseous phase at 25°C (in ccal/mole) (Table 1) and for halo-substituted ethylenes in the gaseous phase at 298.16°K (Table 2) are given. The authors suggest that their calculation is sufficiently accurate for experimental purposes. They also ascertain the heats of formation of bromine, iodine and

Card 1/2

sov/65-58-10-11/15

Heat of Formation of Halogen-Substituted Methane and Ethylene

fluorine-substituted ethylene which have not previously been described in literature (Table 2). There are 2 Tables and 25 References: 13 English, 10 Soviet and 2 German.

Card 2/2

AUTHORS:

Maslov, Yu. P., Maslov, P. G.

sov/76-32-8-4/37

2000年的1000年的2000年的1000年的1000年至1000年的1000年的1000年的1000年的1000年的1000年的1000年的1000年的1000年的1000年的1000年的1000年的1000年的100

TITLE:

A Method of Calculating the Thermodynamic Properties of Some Compounds Without Knowing Their Vibration Spectra (Metod rascheta termodinamicheskikh svoystv nekotorykh soyedineniy

bez znaniya ikh kolebatel'nykh spektrov)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 8,

pp. 1715-1725 (USSR)

ABSTRACT:

The possibility of applying this method to organic and inorganic compounds is investigated. It is based on the knowledge of the structure and the vibration spectra of the molecules of other, sometimes more simple compounds, which generally seen may also belong to another homologous series. The halogen derivatives of methane, ethane, ethylene, ethine, and other compounds offer good prospects for this method. Also compounds in which one or several atoms were substituted by atoms of the elements belonging to one of the side chains of the D. I. Mendeleyev table belong to these compounds. The problem is to find the values of a thermodynamic property A for the entire family of compounds, with the quantity A being known only for some simple representatives of this family (on the same conditions). Some

Card 1/2

A Method of Calculating the Thermodynamic Properties of Some Compounds

data of each single representative of the whole family must be known, however, or it must be possible to calculate—them. In the calculations carried out the data by Pitzer (Pitser) (Refs 1, 7), Pitzer and Gwinn (Gvin) (Ref 7), as well as by dynamic properties as well as the heat capacity and the entropy calculated. The results obtained agree with those mentioned in and 17 references, 8 of which are Soviet.

SUBMITTED:

November 29, 1956

Card 2/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810004-2

AUTHORS:

Maslov, P. G., Maslov, Ya. P.

SOV/153-2-4-9/32

TITLE:

Thermodynamic Properties of Compounds Containing Lanthanides

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 4, pp 516 - 521 (USSR)

ABSTRACT:

Although the compounds mentioned in the title are considered with great interest (Refs 1-3) their thermodynamic properties are but little investigated (Refs 1-3). Their investigation could be somewhat extended (Refs 4-10) by methods developed recently (Refs 4,5). In the paper under review the properties mentioned of the compounds containing lanthanides in crystalline state and in solutions at 25° are discussed. As is known, a given thermodynamic property A of any constituent of a group of related compounds, e.g. of halides of the type $\mathrm{BF}_{\mathbf{i}}\mathrm{Cl}_{\mathbf{j}}\mathrm{Br}_{\mathbf{k}}\mathrm{J}_{\mathbf{q}}$, can be computed

with great accuracy according to formula (1); n=i+j+k+q; B=agroup of atoms equal for all representatives of the group of compounds under discussion; BF_n , BCl_n , BBr_n and BJ_n are the

simplest representatives of the group; the values of the thermodynamic property of the latter are known in advance and with sufficient accuracy. By using the method of reference 5, the

Card 1/3

Thermodynamic Properties of Compounds Containing Lanthanides

sov/153-2-4-9/32

authors determined the formation heats $(-\Delta H^0_f)$, free energies $(-\Delta Z^0_f)$, logarithms of the equilibrium constant $(\log K_f)$, and entropies (S^0) of several halides of: scandium, yttrium, lutetium, thul, erbium, holmium, dysprosium, gadolinium, samarium, neodymium, praseodymium, cerium, and lanthamm. The computation results are shown in tables 1,2, and 4. Moreover, the authors obtained approximate general formulas for the determination of the formation heats, free energies, logarithms of the equilibrium constant, entropy, and heat capacity (C^0_f) of the groups of lanthanide crystallohydrates on account of the methods described in references 5 and 11. These groups were: $X_2(SO_4)_3 \cdot nH_2O(X=Y, Ln, Yb, Ln, Hc, Dy, Tb, Gd, Eu, Sm, Hd, Pr, Ce, La). <math>XO_3 \cdot nH_2O(X=Nd, Pr, Ce)$, $Lr_2(C_2H_3O_2)_2 \cdot nH_2O$, and ammoniates $XCl_3 \cdot mNH_3$ (X=Sm, Hc, and Se). All

Card 2/3

these formulas are shown in table 5. Table 3 shows a comparison of results computed by means of formulas with experimental data for several compounds. The results are in good agreement (accuracy

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810004-2

Thermodynamic Properties of Compounds Containing

sov/153-2-4-9/32

Lanthanides

of a magnitude of 0.2-1%). There are 5 tables, and 11 references, 10 of which are Soviet.

ASSOCIATION: Leningradskiy mekhanicheskiy institut, Kafedra fiziki (Leningrad Mechanics Institute, Chair of Physics)

SUBMITTED: September 10, 1957

Card 3/3

5 (4) AUTHORS:

Maslov, P. G., Maslov, Yu. P. (Leningrad) SOV/76-33-8-2/39

TITLE:

Thermodynamic Characteristics of Crystalline Compounds Containing

Lithium III

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 8, pp 1687-1690 (USSE)

ABSTRACT:

General approximation equations for the evaluation of the heat of formation (HF) and some other thermodynamic properties of crystalline compounds containing lithium were obtained for 25°C by means of the methods by P. G. Maslov (Refs 3, 5) from the corresponding data of the manual by T. D. Rossini et al (Ref 6). The calculation data, based on the principle of additivity, are given (Tables 1, 2) as well as the values obtained for (HF) - ΔH_{f}^{O} , the free energy - ΔF_{f}^{O} , the logarithms of the constants of chemical equilibrium log K_{f} , of the entropy S_{f}^{O} , and of the molar specific heat C_{f}^{O} for some crystal hydrates and ammonistes of the lithium compounds and other groups of compounds in the solid phase at 25°C (Tables 3, 4). A comparison with the data obtained from (Ref 6) shows a good agreement. The accuracy of the equations mentioned is sufficient for preliminary technological calculations

Card 1/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810004-2

Thermodynamic Characteristics of Crystalline Compounds SOV/76-33-8-2/39 Containing Lithium.III

and is, on an average 0.2-1 %; in some individual cases 1-10 %. There are 4 tables and 6 references, 5 of which are Soviet.

Card 2/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810004-2

5.3300, 5.4700

77514 SOV/80-33-1-23/4

EUTHORS:

Maslov, P. G., Maslov, Yu. P.

TITLE:

Some Approximate Formulas for the Determination of

Heat of Combustion and Heat of Formation of

Gaseous Alkadienes

FERIODICAL:

Zhurnal prikladnov khimii, 1960, Vol 33, Nr 1, 14

134-140 (USSR)

ABSTRACT:

Thermodynamic and other properties of chemical

compounds can be expressed by the equation

$$A = a_1 + a_2 \cdot z \text{ (at } z \geqslant 4) \tag{1}$$

where al is an increment identical for the whole

given homologous series; ap is the part of the

characteristic A corresponding to the methyl proup CH2 in the linear chain C-C-C-...; z is the number

Card 1/7

Some Approximate Formulas for the Determination of Heat of Combustion and Heat of Formation of Gaseous Alkadienes

77514 sov/80-33-1-23/40

of CH₂-groups or C-atoms in this chain (P.G. Maxley, ZhFKh., 1952, Vol 26, p 1311; ibid., 1953, Vol 27, p 509). In the present study the authors established general formulas of type (1) for the determination of the heat of combustion and heat of formation of gaseous alkadienes at 25° C. The alkadienes were separated into groups having similar molecular structures, and the following formulas were suggested for the determination of the heat of combustion at 25° C under constant pressure: for 1-cis-3-alkadienes:

 $-\Delta Hc^{\circ} = (...24.31 + 157.44z) \text{ Cal/mole}$

for o-trans-3-alkadienes:

 $-\Delta Hc^{\circ} = (-25.24 + 157.44z)$ Cal/mole

-:: a 2/7

Some Approximate Formulas for the Determination of Heat of Combustion and Heat of Formation of Gaseous Alkadienes

77514 SOV/80-33-1-23/49

for 2 methyl-1-cis-3-alkadienes:

$$-\Delta \text{He}^{\circ} = (130.16 + 157.44z) \text{Cal/mole}$$

and so on. The above can be expressed by a general formula for alkadienes:

$$-\Delta Hc^{\circ}_{gaz} = -\left[24.31 - 15.42k_1 - 6k_2 + 0.938 \sin \frac{\varphi}{2} - 154.47m_1 + 155.7m_2 + 1.63 (\sigma - 1)\right] + 157.44z (of z > 4),$$
 (2)

where k_1 is the number of C=C-bonds having a common C-atom; k_2 is the number of C=C-bonds separated by 2 or more C-C-bonds in the main carbon chain of the alkadiene (e.g., in 1,2-alkadienes k_2 = 0, k_1 = 1;

Card 3/7

Some Approximate Formulas for the Determination of Heat of Combustion and Heat of Formation of Gaseous Alkadienes

77514 SOV/80-33-1-23/49

in 1,5-alkadienes k_1 = 0, k_2 = 1; etc); φ is the angle of rotation of C=C-bonds from the original claim of trans- or trans-trans-position (it is assumed that this angle is 0 in cis- or cis-cis-configurations and is equal to π in cis-trans-trans- or trans-trans-configurations); δ is the number of rotations of C=C-bonds around the axis passing through the bond=C-C=, from cis- or cis-cis-position into trans-, cis-trans-, or trans-trans-position (e.g., in 1-trans-3-alkadienes, δ = 1 and φ = π ; in 2-methyl-trans-2-trans-4 alkadienes, δ = 2, φ = π); m_1 is the number of methyl groups in the molecule which replaced H-atoms at the second and last-but-one C-atoms in the main alkadiene chain, and which took part in the formation of C=C-bonds; m_2 is the number of methyl groups which replaced H-atoms

Card 4/7

Some Approximate Formulas for the Determination of Heat of Combustion and Heat of Formation of Gaseous Alkadienes

77514 SOV/80-33-1-23/49

belonging to the remaining C-atoms of the carbon chain; σ is the smallest ordinal number of the C-atom with the first C-C-bond; z is the number of C-atoms in the unbranched alkadiene (e.g. z=5 in all pentadienes). The heat of combustion in Eq. 2 is expressed in Cal/mole; the equation is valid for alkadienes with z > 4, and gives only approximations with z < 4. The heat of formation of gaseous alkadienes at 25° C from the elements—can be expressed similarly by the equation

$$-\triangle H^{\circ} \text{ FORM. (EL.)} = -\left[44.02 + 15.42 \cdot k_1 - 6k_2 - 0.938 \sin \frac{\varphi}{2} - 7.9m_1 - 0.00m_2 - 1.63 (\sigma - 1)\right] + 4.93z \quad (AT \quad z \ge 4)$$
(3)

and the heat of formation from atoms is correspondingly

Card 5/7

Some Approximate Formulas for the Determination of Heat of Combustion and Heat of Formation of Gaseous Alkadienes

77514 sov/80-33-1-23/49

$$-\triangle H^{\circ}_{FORM}(AB) = \begin{bmatrix} 148.39 - 14.42k_1 + 6k_2 & 0.938 \sin \frac{9}{2} - \\ -238.44m_1 - 237.22m_2 - 1.63 (9 - 1) \end{bmatrix} + 235.5z \quad (AT :> 4).$$
 (4)

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The values obtained from Eq. 2-4 are approximations, which are close enough, however, to the best experimental data to serve in technological calculations. The errors do not exceed 1 to 1.5%. Comparative tables of calculated and experimental heats of combustions and heats of formations of numerous alkadienes are given. There are 2 tables; and 8 references, 2 U.S., 6 Soviet. The U.S. references are: J. Research Natl. Bur. of Standards, 1951, Vol 46, p 106; F. D. Rossini, K. S. Pitzer, R. L. Arnett, R. M. Braun, G. C. Pimentel, Selected Values of Physical and Thermodynamic Properties of Hydrocarbons

Card 6/7

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810004-2

Some Approximate Formulas for the Determination of Heat of Combustion and Heat of Formation of Gaseous Alkadienes

77514 sov/80-33-1-23/45

and Related Compounds, Publ. A. P. I., Pittsburgh, Pa.,

1953, p 458.

SUBMITTED:

May 10, 1956; resubmitted, 1959.

card 7/7

CIA-RDP86-00513R001032810004-2" APPROVED FOR RELEASE: 06/14/2000

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ASSESSMENT OF STREET OF STREET

AUTHORS: M.slov, P. G. and Maslov, Yu. P.

TITLE:

, I. ...

A new statistical method of calculating thermodynamic

properties

SOURCE:

Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy; trudy konferentsii, no. 6: Doklady, diskussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad, Izd-vo AN SSSR,

1961, 240-258

TEXT: The authors present a new generalized version of the statistical method, based on the results of their earlier research work. The new method differs from the conventional methods by a great simplicity of operation, associated with great accuracy, close to that of the videly known methods, which, however, necessitate knowledge of vibrations spectra, electronic levels and of the nature of stopped rotations. The molecular characteristics (molecular weights, principal moments of inertia and symmetry numbers) Card 1/2

A new statistical method ...

\$/661,101,1000,1006,1058,1061 D207,10302

are required only for saleulating the properties of the type of entropy and of the Q*-potential. Properties such is helt saysity, heat content, heats of combustion and formation, physics-characteristics of vaporisation, ionisation potentials, energies of dissociation, obling points and critical parameters are the tained directly from formales. The method can be applied to all compounds, in particular to organosilizon, organo-metalic and inorganic compounds. The calculated results are in very good agreement with the results of measurements, and without salety he made by other authors. Three numerical examples are liven. There are 3 tables and 2s references: 21 devict-blocker, 7 mon-Devict-bloc. The 4 most recent references to the Unglished made paclisations and as follows: A. S. Pricementant he had not place, 7, 5200, (1954); E. V. Zvach, J. D. M. De had M. J. Placer, J. Sales. Phys., 25, 1814, (1995); C. M. Lie, Careb and M. J. Placer, J. Sales. Phys., 25, 1814, (1995); G. M. Lie, Careb and M. J. Placer, J. Sales. Phys., 26, 1706, (1997).

Card 2/2

15.8170

37770 \$/661/61/000/006/060/031 D267/D302

AUTHOR:

Maslov, Yu. P.

TITLE:

Thermodynamic characteristics of the phase transitions of some organosilicon compounds

SOURCE:

Khimiya i prakticheskoye primeneniye kremneorganisheskikh soyedineniy; trudy konferentsii, no. 6; Doklady, sishussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad, Izd-vo AN JUCR, 1961, 265-271

TEXT: Siloxanes and halogenated silanes play a substantial role in modern industry, but their thermodynamic properties have so for been insufficiently studied. Out of the available methods which can be used for calculating various thermodynamic constants the author recommends his own methods (Ref. 8: Optika i spektr., 3, 36, (1957)); (Ref. 9: ZhFKh, 32, 1715, (1958)); (Ref. 10: ZhFKh, 35, 164, (1961)), characterized by simplicity of operation and good accura-

Card 1/2

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S/661/61/000/008/080/081 D267/D302

Thermodynamic characteristics of ...

cy. The results of various thermodynamic characteristics of phase transitions, obtained by this method for halogen derivatives of silane, disilane and disiloxane, are presented in tabular form; they include ΔΗ, ΔS and the temperature of vapor formative. The agreement with experimental data is good (in the case of halogen-substituted compounds without hydrogen the difference amounts to: 0.2 - 1% for the temperature, 1 - 3% for the heat, and up to 10% for entropy; the differences are greater for compounds containing hydrogen). There are 3 tables and 10 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: F. D. Rossini, D. D. Magman, W. M. Evans, S. Levine and J. Jaffe, 'Selected value of chemical thermolynamic properties', Mashington, (1952).

ASSOCIATION: Leningradskiy mekhanicheskiy institut (Leningrad Institute of Mechanics)

Card 2/2

· 第3.

MASLOV, P.G. (Leningrad); MASLOV, Yu.P. (Leningrad)

Method of computing thermodynamic properties without the knowledge of electronic and vibrational spectra. Zhur. fiz. khim. 35 no.1: 164-175 Ja '61. (MIRA 14:2)

(Thermodynamics)

MASLOV, Yu.P. (Leningrad)

Thermodynamic characteristics of the melting and vaporization of some halides and of their crystal hydrates. Zhur. fiz. khim. 35 no.5:974-976 My '61. (MIRA 16:7)

(Halides) (Heat of vaporization)
(Melting points)

MASLOV, P.G.; MASLOV, Yu.P.

Determination of the heats of combustion and evaporation of benzene derivatives. Khim. prom. no.8:594-596 Ag '63. (MIRA 16:12)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810004-2

ES/WW/JW/JD/JG IJP(c) EWT(m)/EWP(t)/ETI L 36830-66 SOURCE CODE: UR/0079/65/035/012/2112/2115 ACC NR AP6014090 57 Maslov, P. G.; Maslov, Yu. P. AUTHOR: B ORG: Leningrad State Pedagogic Institute im. A. I. Gertsen (Leningradskiy gosudarstvennyy pedagogicheskiy institut) TITLE: Heat of formation of some halides of thorium, protoactinium, uranium, neptunium, and americium SOURCE? Zhurnal obshchey khimii, v. 35, no. 12, 1965, 2112-2115 TOPIC TAGS: heat of formation, halide, protoactinium, uranium, thorium, neptunium, americium ABSTRACT: The present article contains calculations of the heat of formation of the above compounds based on previously published literature data. Extensive tables give values of the heat of formation for approximately 240 distinct compounds. It is stated that the accuracy of the figures given is not always too great. The possible absolute error in the calculation is of the order of +5-10 kcal/mole, but not greater. Orig. art. has: 3 tables. SUB CODE: 07, 20/ SUBM DATE: 190ct64/ ORIG REF: 010/ OTH REF: 003 UDC: 511.115:546.79 **Cord** 1/1

MASIOV, Yu.S.

Basic characteristics of the formation of certain types of gold ore deposits. Rasved.i okh.nedr 25 no.11:9-12 H 159. (MIRA 13:5)

1. Yakutskoye geolupravleniye. (Siberia, Eastern-Gold ores)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810004-2

MASLOV, Yu.S.

Gold-bearing karst. Priroda 51 no.4:119 Ap '62. (MIRA 15:4)

1. Kompleksnaya ekspeditsiya Yakutskogo geologicheskogo upravleniya, Aldan.

(Yakutia -- Gold ores)

STREET STREET STREET STREET STREET STREET STREET

LEMAN, Ye-P.; MASLOV, Yu.S.; KHOLMYANSKIY, M.A.

Practice of using geophysical studies made in holes during prospecting for gold deposits in southern Yakutia. Rezved.i okh. nedr 29 no.1: "46-50 Ja 163. (MIRA 16:2)

1. Timptono-Tchurskaya ekspeditsiya.
(Yakutia—Gold ores) (Prospecting—Geophysical methods)

SLOBODYANIK, O.P. [Slobodianyk, O.P.]; MASLOV, Yu.V., dektor med. nauk, prof., otv. red.

[Forensic psychiatry] Sudova psykhiatriia. L'viv, Vyd-vo L'vivs'koho univ., 1963. 158 p. (MIRA 18:2)

1. Zaveduyushchiy kafedroy psikhiatrii L'vovskogo Gosudar-stvennogo meditsinskogo instituta (for Maslov).

MASLOVA, A.A.

Water balance of gleyey-turf and gleyey soils drained by subsurface drainage in the Yakhroma Valley. Pochvovedenie no.9:25-32 S *64. (MIRA 17:12)

l. Vsesoyuznyy nauchno-issledovateliskiy institut gidrotekhniki i melioratsii.

SOV/137-58-11-23078

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Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 178 (USSR)

AUTHORS: Pavlov, S. Ye., Maslova, A. F.

TITLE: Intercrystalline Corrosion and Stress Corrosion of Dlb-T Alloy Pipes

(Mezhkristallitnaya korroziya i korroziya pod napryazheniyem trub

iz splava D16-T)

PERIODICAL: V sb.: Korroziya i zashchita metallov. Moscow, Oborongiz, 1957.

pp 218-235

ABSTRACT: A study was made of the susceptibility to intercrystalline corrosion

(IC) of D16-T alloy pipes as received after they had been tested in a solution of 3% NaCl + 1% HCl for 48 hours. The susceptibility to IC discovered in pipes quenched after heat treatment in a saltpeter bath is explained by their excessively prolonged exposure to air before quenching which was due to certain shop conditions. Quenching after heating in air-circulation pit furnace cuts down the time needed for the transfer into the quenching tank to 3 sec, yet the tendency towards IC is not totally eliminated; a localized character of corrosion is noticed along the length of the pipe as well as in its separate sec

is noticed along the length of the pipe as well as in its separate sec-Card 1/2 tions, which fact can be tentatively explained by the effect of internal

SOV/137-58-11-23078

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Intercrystalline Corrosion and Stress Corrosion (cont.)

stresses originating during the quenching on the borders of adjacent differently oriented grains. Stress-corrosion in pipes increases with an increase in susceptibility to IC. Sizing of pipes sharply decreases their resistance to stress corrosion since it causes high local residual stresses. With high sensitivity to IC the anodic film (without additional protection by ALG-1, ALG-7, and AG-3 under coating) promotes corrosion cracking. It is necessary to protect anodized pipes with coats of varnish.

O. M.

Card 2/2

MASLOVA, A.F. (Moskva) Modification in the adrenalin content of the blood and aqueous humor in a rabbit following irradiation [with summary in English]. Biul. eksp.biol. i med. 46 no.9:81-84 S 158 (MIRA 11:11)

rabbits (Rus))

1. Predstavlena devstivtel nym chlenom AME SSSR V.V. Parinym.

(EPINEPHRINE, metab.

aqueous humor & blood, eff. of x-rays in rabbits

(Rus))

(AQUEOUS HUMOR, metab.

epinephrine, eff. of x-rays in rabbits (Rus))

(ROENTGEN RAYS, effects

on aqueous humor & blood epinephrine content in

MASLOVA, A.F., Cand Biol Sci -- (diss) "On the problem of changes after wedners of in the content of adrenergic substances in rabbits expessed to reliable expessed to rediation." Hos, 1959, 11 pp (Acad Med Aci USSR) (KL, 36-59, 114)

MASLOVA, A.F.

Mechanism of disturbances in the amount of adrenaline and adrenalinelike substances in the blood and aqueous humor of rabbits following total-body irradiation. Med.rad. 4 no.12:36-41 D '59.

(MIRA 13:5)

(EPINEPHRINE metab.)
(NOMEPINEPHRINE metab.)
(AQUEOUS HUMOR metab.)
(RADIATION EFFECTS)

MASIOVA, A.F.

Polarographic method of determining adrenalin noradrenaline and substances with certain properties of adrenaline oxidation products. Biokhimiia 24 no.2:181-186 Mr-Ap '59. (MIRA 12:7)

(EPINEPHRINE, determ.

polarography of spinephrine & of substances with properties similar to epinephrine oxidation prof. (Rus))

PERSONAL TRANSPORT TO THE PERSON ASSUMPTION OF THE PERSON OF THE PERSON

MASLOVA, A. F., (USSR)

"Ionizing Radiation Induced Disturbances of Nervous Regulation of Catecholamine Uptake by $\mathtt{Rffector\ Organ_{\bullet}}^n$

Report presented at the 5th Int¹l. Biochemistry Congress, Moscow, 10-16 Aug 1961.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86

CIA-RDP86-00513R001032810004-2

27.2400

39275 S/219/62/053/001/002/007 I015/I215

AUTHOR:

Maslova, A. F.

TITLE:

Biological activity of catecholamines in rabbits at various intervals after irradiation

PERIODICAL:

Byulleten' eksperimental'noy biologii i meditsiny, v. 53, no. 1, 1962, 25-28

TEXT: Acute radiation sickness was elaborated in 12 female rabbits, which were subjected to irradiation of 400 r. The experiments lasted for 3 to 4 weeks; all the animals survived that period of time. Blood samples were examined for their catecholamine contents, before irradiation, and at various time intervals thereafter. Catecholamines are biologically active during the entire course of radiation sickness. There are 3 figures.

SUBMITTED:

March 16, 1961

Card 1/1

MASLOVA, A.F.

Quantitative determination of acetylcholine in biological matter by means of a polarographic analytical method. Vop.med.khim. 10 no.3:311-316 My-Je *64. (MIRA 18:2)

1. Institut blofiziki Ministerstva zdravookhranentya SSSR, Moskva.

ACC NR. AT6036649

SOURCE CODE: UR/0000/66/000/000/0273/0274

AUTHOR: Maslova, A. F.

ORG: none

TITLE: Problem of participation of the sympathetic-adrenal system of rabbits in the formation of compensatory reactions to changed environmental conditions from 24-27 kgy 1966 at the Conference on Problems of Space Medicine held in Moscow from 24-27 SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 273-274

TOPIC TAGS: isolation, hypodynamia, isolation test, animal physiology, hermetic chamber

ABS TRACT:

Exposure of an organism to the unaccustomed conditions of a hermetically sealed space of limited volume brings about the formation of a definite nervous system reaction. This reaction, in all probability, is very complex and develops in a number of stages. On the one hand it was noted that environment acted as a stimulus to the functional state of the nervous system, as a result of which the blood of rabbits was observed to contain a greater number of blood mediators—adrenalin and acetylcholine—thoughout

Card 1/3

ACC NR: AT6036649 the observation period. On the other hand, however, the nervous system reacts in turn to altered environmental conditions by causing the organism to assume a set of symptoms which make up, in the final analysis, the general adaptation reaction. In the formation of this reaction, an important, almost universal, and largely initiative role must be assigned to the function of the sympathetic-adrenal system (L. A. Orbeli, A. V. Lebedinskiy, V. Kennon). It has been shown that the most "difficult" period for rabbits is the first two hours of isolation, which require a great amount of catecholamines. The necessary amounts of mediators are supplied to the blood, and thence to tissue, from reserves located at their formation sites (adrenal glands and nerve terminals). In the subsequent hours and days of the organism's sojourn in a hermetically sealed space, a relationship is established between the organism and the environment providing for the most economical operation of the nervous system as a whole. In this respect the data presented supplement the hypothesis of A. V. Lebedinskiy that a certain amount of time is required for the formation of the adaptation reaction. It may also be assumed that readjustment of the organism occupies the first six hours. Noradrenalin participates in the formation of this reaction. Enhanced noradrenalin synthesis in the first hours of isolation has been demonstrated both in the adrenals and in the tissues of the upper cervical sympathetic ganglion. The high noradrenalin content is a fairly

Card 2/3

stable value; noradrenalin elevated for a long time.	blood level is increased	l by training and rema	ins
∠W.A. No. 22; ATD Report 66-1167			
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Card 3/3			

WADESKAYA, H.Ye.; VOLOSYANKIE, G.D.; MASIOYA, A.I.; RUBTSOVA, N.A.

Organization of occupations for tuberculous patients. Probl. tuberk..

Moskva No.6:63-66 Nov-Dec 51.

1. Of Krasnodar Scientific-Research Institute of Tuberculosis (Director Prof. A.L. Samoylovich).

MASLOVA, A.S. (Moskva)

Rh factor in obstetrics. Fel'd. i akush. 27 no.4:22-25 Ap '62.
(MIRA 15:6)

(ET FACTOR)
(ERYTHROBIASTOSIS FETALIS)

/EWP(h)/EWA(c) IJF(c) JD/JG UR/0370/65/000/003/0128/0130 669.017.12 Jg/
y. (Moscow); Savitskiy, Ye. M. B
steac.
1965, 128-130
vstem, iron neodymium alloy, alloy
-100 wt% No were vacuum melted from able tungsten electrode arc furnace in
ASSESSMENT OF THE PARTY OF THE PROPERTY OF THE
physicochemical analysis. On the
ing 24 wt% Nd was found to be a single- toichiometric Nd ₂ Fe ₁₇ composition. A ontaining more than 50 wt% Nd. The

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largest amount of this compound of this compound of the compounds are forme spectively. Nd2Fe17 has a Th2 a = 8.59 Å, c = 12.47 Å, and compound has not yet been identications.	d with peritectic reactions $Zn_{1/2}$ -type structure with th $J_a = 1.451$. The structure	at 1185 and 1130 ± 100, re- ne lattice parameters of the second metallic com- show it is not a Laves
creasing content of the secon	d phase, the hardness of the	ne alloy increased. In the very brittle \ DThe microhard-
phase. Additions of Nd incre	d phase, the hardness of the	ne alloy increased. In the very brittle \ DThe microhard-
phase. Additions of Nd incre creasing content of the secon concentration range of 15-60 ness of Nd ₂ Fe ₁₇ was 730 kg/ms 2 figures.	d phase, the hardness of the	ne alloy increased; In the very brittle. DThe microhard-g/mm ² . Orig. art. has: [WW]
phase. Additions of Nd incre creasing content of the secon concentration range of 15-60 ness of Nd ₂ Fe ₁₇ was 730 kg/ms 2 figures.	d phase, the hardness of the	ne alloy increased. In the very brittle \ DThe microhard-
chase. Additions of Nd incre creasing content of the secon concentration range of 15-60 ness of Nd ₂ Fe ₁₇ was 730 kg/mm 2 figures.	ase the hardness of deliberation of the passe, the hardness of the wix Nd, the alloys become the and that of NdFe2, 500 kg	ne alloy increased; In the very brittle. DThe microhard-g/mm ² . Orig. art. has: [WW]

I 1358-66 EWT($\hat{\mathbf{n}}$)/EWP($\hat{\mathbf{w}}$)/EWG($\hat{\mathbf{n}}$)/T/EWP($\hat{\mathbf{t}}$)/EWP($\hat{\mathbf{b}}$) IJP($\hat{\mathbf{c}}$) RDW/JD UR/0126/65/020/002/0299/0301 ACCESSION NR: AP5021942 546.657:538.214 AUTHOR: Chechernikov, V.I.; Speranskiy, N.M.; Maslova, E.V.; Terekhova TITLE: Magnatic proparties of iron-neodymium alloys 527 35,21 SOURCE: Fizika metallov i metallovedeniya, v. 20, no. 2, 1965, 299-301 TOPIC TAGS: from containing alloy, neodymium containing alloy, magnetic properties, constitution diagram, ferromagnetic region, paramagnetic region, Curie point, antiigripmsgnetic interaction, three sublattice structure ABSTRACT: Pure carbony iron (99.9%) and neodymlum metal (99.5%) were smelted together in an arc furnace with a nonconsumable tungsten electrode in a purified helium simosphere under a presoure of 300-400 mm Hg. The resulting alloys containing different proportions of Fa to Nd were remelted several times to assure homogeneity and annealed in evacuated quartz ampoules at 600 and 900°C for 130 hr. Subsequent microstructural and X-ray analyses of the sphere- and rod-shaped specimens showed that most of the obtained alloys are of two-phase kind and represent mechanical mixtures of solid solutions (based on pure components) with chemical compounds (Fe17H2 and Fe2Nd). Such a type of constitution diagram largely deter-Card 1/3

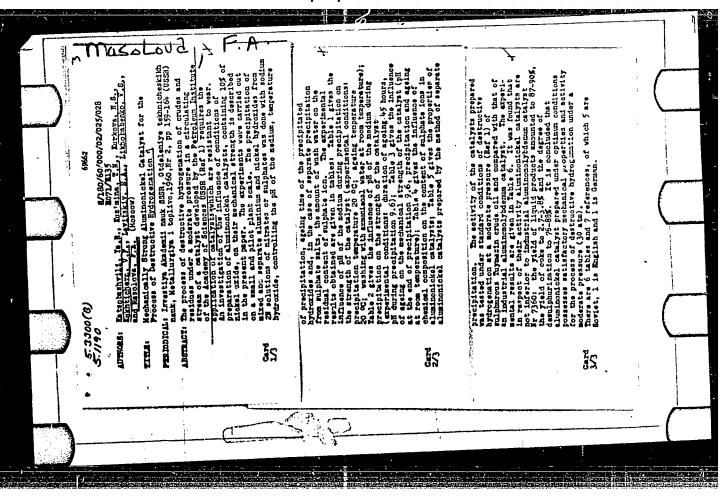
L 1358-66 ACCESSION 38: AP5021942

mines the magnetic properties of these alloys. The magnetic properties were investigated with the aid of the magnetic scale described by V. I. Chechernikov (Vestnik MCU, ser. fiz., 1957, no 1, 47), at first in the ferromagnatic region. It turned out that in alloys containing from 10.52 to 85 at. 7 Md, below the ferromagnetic Curis point B; there exists a temperature range in which magnetization decreases to a minimum whateupon it again rises, and then again drops to zero at T = 0f. The investigations were also carried out in the paramagnetic region, where they made it possible to calculate the effective magnetic moment P and the temperature of the Daramagnetic Curis point. The temperature range of investigations in both the ferrossgnetic and the paramagnetic regions was 300-1300 K. At is concluded from the findings that in the Fe-Hd alloy system there exists, along with the ferromagnetic, also an antiferromagnetic interaction which is most clearly manifested in the case of the one-phase compound Pel7Nd,. As the experiments revealed, in the region of axistence of this compound the magnetic moment of alloy reaches a minimum and the paramagnetic Curie point is such lower than in pure iron. It is possible that a three-sublattice structure exists in the Fe-Nd system, with positive interaction existing between homogeneous atoms and negative interaction between the atoms of Fe and Md. The magnetization of Fe-Hd alloys throughout the temperature range investigated is conditioned by the Ta atoms; it is not completely compensated, since the magnetic moment of the Pe atom exceeds that of the Md atom. "In conclusion the

Card 2/3

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	ACCESSION MR: AP5021942 Buthows wish to express their	de en Professor Te.	I. Kondorskiy for dis	cus-
	authors wish to express their sion of the findings and const	ructive advice." Orig. ar	t. has: 3 figures, 1 c	ADIE.
	ASSOCIATION; Moskovskiy gosun	iversitet im. N. V. Loson	Bova (Hostra State Uni	ABI.
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	HO REF BOV: 002	tration to separate the		
	Pure metal			



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STOCKLE STREET SEEDS AND STREET S

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2 p 218 (USSR)

AUTHORS: Popov, A. A., Maslova, F. F.

TITLE: The Effect of Inoculation and Casting Conditions on the Structure of

Silumins (Vliyaniye modifitsirovaniya i usloviy otlivki na strukturu

siluminov)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1958, Nr 68, pp 141-157

ABSTRACT: Investigations were carried out in order to determine how the micro and macrostructure of eutectic and hypoeutectic Silumins (S) of the types AL-2 and AL-9 is affected by inoculation, temperature of the

liquid metal, and rate of cooling of the latter. The S's under investigation were heated to a specified temperature in a porcelain crucible of a capacity of 100-150 g and, after 10 minutes of soaking were treated with inoculants introduced in quantities ranging from 0.1 to 3.0% of the weight of the liquid S. The following compounds were tested as inoculants: silico-zirconium (- 50% Zr), iron boron

(5% B), CaCl2, BaCl2, and a mixture of salts (2/3 NaCl+1/6 KCl+CaF2). After inoculation and a soaking period of five minutes—the S's

Card 1/2 were cast in different types of molds so as to ensure various rates of

SOV/137 59 2 3813

The Effect of Inoculation and Casting Conditions on the Structure of Silumins

cooling. It was established that the influence of the inoculating additives is indeed a function of the temperature of the S's and the rate of cooling of the castings. The following inoculants were found to be most effective: The mixture of salts mentioned above in a quantity of at least 0.10/0 and CaCl2 or BaCl2 in a quantity of not less than 0.60/0. With reference to the S's of the type AL-2 and AL-9, it was contirmed that modified structure may be obtained not only with the aid of inoculating additives but also by means of increasing the temperature of the liquid S followed by accelerated cooling. Inoculation sharply changes the microstructure of the S, but leaves its macrostructure practically unaffected.

Card 2/2

MASLOVA, F.G.

A problem in the spectral theory of differential operators.
Dokl. AN SSSR 152 no.4:820 0 '63. (MIRA 16:11)

1. Matematicheskiy institut im. V.K. Steklova AN SSSR.
Predstavleno akademikom I.M. Vinogradovym.

MASLOVA, G.A.; STRUKOV, I.T.

 α -Phenoxyacylaminocarboxylic acids and their derivatives. Zhur. ob. khim. 34 no.10:3411-3414 0 **64.

New method of obtaining 3,5-disubstituted hydantoins. Ibid.:3506 (MIRA 17:11)

1. Laboratoriya organicheskogo sinteza Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov, Moskva.

L 45229-65
ACCESSION NR: AP5009021

AUTHORS: Maslova, C. A.: Strukov, T. T.

TITLE: Polysynthetic penicillins. :. Condensation of 6-aminopenicillic acid with axiactors and compounds with ethoxymethylens functions

SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 2, 1965, 348-352

TOPIC TAGS: penicillin, organic derivative, molecular structure

ABSTRACT: The objective of this research was to produce and study penicillins with a structure differing from ordinary types (NHCO bond). Forms derived from 6-amino-a structure differing from ordinary types (NHCO bond). Forms derived from 6-amino-a structure differing from ordinary types (NHCO bond) bond were investigated. One

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producing sta	d-fast saprophyte Mycobact phylococci. The reason for	chain structure. "Wo	express our sincere	mvv

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ASSOCIATION: Veesoyustyy	nauchno-ise/@ovatel'skiy institut antibiotikov (All- Institute of antibiotics)	
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EXT(n)/EXP(j)/T RM L 1280-66 UR/0138/65/000/009/0049/0050 ACCESSION NR: AP5024109 678.044.7:546/647.02 AUTHOR: Galybin, G. M.; Maslova, G. A.; Fedorova, M. I TITLE: Chemical composition of triethal SOURCE: Kauchuk 1 rezina, no. 9, 1965, 49-50 TOPIC TAGS: rubber chemical, phihalic acid, triethanolamine, vulcanization ABSTRACT: Triethal is used at the Yaroslavskiy shinnyy zavod (Yaroslavi Tire Plant) as a vulcanization activator replacing a combination of diphenylguanidine and altax. Its chemical composition was studied by determining the hydroxyl groups in organic compounds, determining the carboxyl groups by titrating with alkali in an alcohol medium, and determining nitrogen in organic compounds by the Kjeldahl method. It was found that triethal is a mixture of complex chemical products formed by the reaction of phthalic anhydride with commercial triethanolamine. It consists of esters (about 80%), a crystalline organic salt which has no vulcanizing properties, and excess triethanolamine. The influence of triethal and its components on the properties of inner-tube rubbers was determined. Orig. art. has: 1 table. Card 1/2

L 1280-66 ACCESSION NR: AP5024109	er land	2 Promision and
ASSOCIATION: Yaroslavsldy sh	innyy zavod (<u>Yarosiavi 111</u> ENCL: 00	SUB CODE: DC, GC
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MASLOVA, G.A.; STRUKOV, I.T.

Amide-imidol tautomerism in the penicillin series. Antibiotiki 10 no.11:1005-1010 N '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovateliskiy institut antibiotikov, Moskva. Submitted April 15, 1964.

s/078/60/c05/02/019/045 5(2) B004/B016 Maslova, G. B., Nazarov, P. P., AUTHORS: Chmutov, K. Separation of Some Radioactive Rare Earths by Means of TITLE: Chromatography Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 2, pp 359-365 PERIODICAL: (USSR) The authors report on the chromatographic separation of radio-ABSTRACT: active La, Ce, Pr, Nd, Pm, and Y on the ion exchanger KU-2/ (experiments with SDV-3 resin were less successful). The isotopes La 140, Ce 141 + Ce 144 -> Pr 144, Pr 143, Nd 147, and Y 91 were formed by bombarding uranium with thermal neutrons in the pile. As complexing agents, lactic acid (Figs 1,2), and pyrophosphoric acid (Fig 3) were used. The experiments with lactic acid are described in the experimental part (Table 1, Figs 4,5). The stability constants of the lactate complexes cf Ce, Nd, and Y were determined by potentiometric titration and ion exchange (Tables 2,3). The authors cite V. I. Paramonova (Ref 5). There are 5 figures, 3 tables, and 15 ref-Card 1/2

Separation of Some Radioactive Rare Earths by Means of Chromatography

\$/078/60/005/02/019/045 B004/3016

erences, 3 of which are Soviet.

SUBMITTED:

September 16, 1958

Card 2/2

BIKITIN, Nikolay Bikiforovich; MASLOVA, Galina Gerasimovna

[Collection of problems in geometry] Sbornik zedach po geometrii. Moskva, Uchebno-pedagog.izd-vo. Vol.1. [Plane geometry for grades 6 and 7 of the secondary school] Planimetriie dlia 6 1 7 klassov srednei shkoly. 1958.

(MIRA 13:8)

(Geometry, Plane--Problems, exercises, etc.)

ASHKINUZE, V.G., nauchnyy sotrudnik; GIBSH, I.A., nauchnyy sotrudnik; MASLOVA, G.G., nauchnyy sotrudnik; NESHKOV, K.I., nauchnyy sotrudnik; NESHKOV, K.I., nauchnyy sotrudnik; NESHKOV, K.I., nauchnyy sotrudnik; NESHKOV, A.D., nauchnyy sotrudnik; FETISOV, A.I., nauchnyy sotrudnik; KOSTELOVSKIY, V.A., red.; TARASOVA, V.V., tekhn.red.

[Teaching mathematics in schools in the 1959/60 school year]
O prepodavanii matematiki v shkole v 1959/60 uchebnom godu. Pod
red. A.D. Semushina. Moskva, 1959. 135 p. (MIRA 13:5)

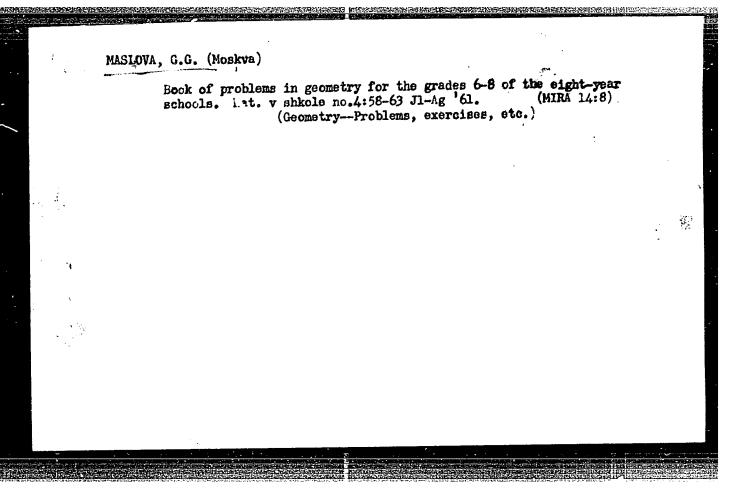
1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov obucheniya. 2. Sektor metodiki prepodavaniya matematiki Instituta metodov obucheniya Akademii pedagogicheskikh nauk RSFSR (for all except Kostelovskiy, Tarasova).

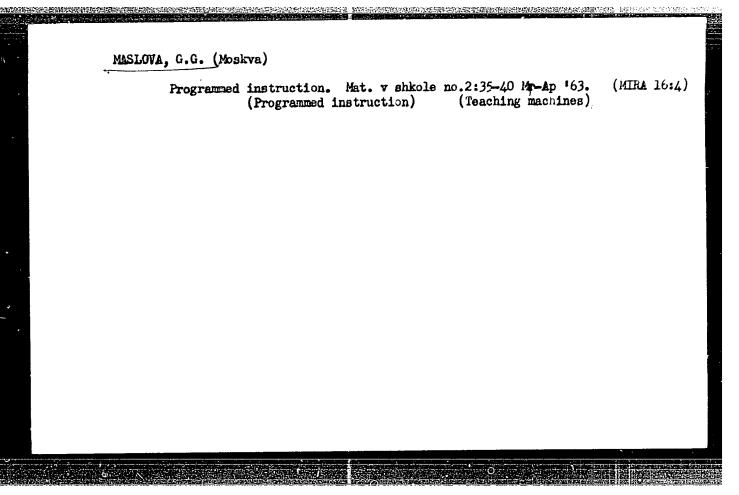
(Mathematics—Study and teaching)

MASLOVA, Galina Gerasimovna; VIKULINA, M.K., red.; DOBROKVASHINA, A.M., tekhn.red.

AND THE PROPERTY OF THE PROPER

[Methods of teaching the solution of construction problems in eight-year schools] Metodika obucheniia resheniiu sadach na postroenie v vos miletnei shkole. Moskva, Izd-vo Akad.pedagog. nauk RSFSR, 1961. 151 p. (NIRA 14:12) (Geometry--Problems, exercises, etc.)





MASLOVA, G.I.

Changes in the functional indices of external respiration in response to a controlled physical load. Trudy TSIU 77:19-24 '65. (MIRA 18:9)

1. Kafedra lechebnoy fizicheskoy kul'tury i vrachebnogo kontrolya (zav. chlen-korr. AMN SSSR prof. V.N. Moshkov) TSentral'nogo instituta usovershenstvovaniya vrachey.

ORESHKO, V.F. [deceased]; GORIN, L.F.; MASLOVA, G.M.

Effect of ionizing radiation on the sizing of starch. Izv. vys. ucheb. zav.; pishch. tekh. no.4:35-38 *61. (MIRA 14:8)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra neorganicheskoy khimii. (Gamma rays--Industrial applications)

MASLOVA, G.M.

Photomicrographic method of studying the process of sizes formation in starch. Izv.vys.ucheb.zav.; pishch.tekh. no.3:157-160 '62. (MIRA 15:7)

1. Moskovskiy tekhnologicheskiy institut pishehevoy promyshlennosti, kafedra neorganicheskoy khimii.

(Photomicrography) (Starch)

ORESHKO, V. F. [deceased]; GORIN, L. F.; KOROTCHENKO, K. A.; MASLOVA, G. M.; CHERNENKO, L. Ye.; SHAKHOVA, N. G.

Radiation chemistry of starch, Izv. vys. ucheb. zav.; pishch. tekh. no.5:32-37 62. (MIRA 15:10)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra neorganicheskoy khimii.

(Starch) (Radiochemistry)

MASLOVA, G.M.; GORIN, L.F.

Effect of the grain size on the temperature of gelatinization of potato starch, Izv. vys. ucheb. zav.; pishch. tekh. no.6: 16-19 '63. (MIRA 17:3)

l. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra neorganicheskoy khimii.

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SKULACHEV, V.P.; MASLOV, S.P.; SIVKOVA, V.G.; KALINICHENKO, L.P.;
MASLOVA, G.M.

Cold uncoupling of exidation and phosphorylation in the muscles of albino mice. Biokhimia 28 no.1:70-79 Ja-F '63.

(MIRA 16:4)

1. Chair of Animal Biochemistry, State University, Moscow.
(PHOSPHORYLATION) (OXIDATION, PHYSIOLOGICAL)
(COLD_PHYSIOLOGICAL EFFECT)

MASLOVA, G.M.; PUTILOVA, I.N.

Changes occurring in potato starch grains under the effect of Co⁶⁰ gamma rays. Izv.vy*ucheb.zav.; pishch. tekh. no.3:28-35'63. (MIRA 16:8)

1. Moskovskiy tekhnologicheskiy institut přehchevoy promyshlennosti, kafedra neorganicheskoy khimii.

(Starch) (Gamma rays)

L 56008.65

ACCESSION NR: AP5015654

UR/0217/65/010/003/0538/0539

577.37

AUTHOR: Maslova, G. M.; Maslov, S. P.; Shnol', S. E.

B

TITLE: Acceleration of the germination of Tradescantia paludosa pollen by

sonic vibrations in the audible range

SOURCE: Biofizika, v. 10, no. 3, 1965, 538-539

TOPIC TAGS: microspore, vibration, biological effect, germination, sound stimulus, Tradescantia paludosa, pollen

ABSTRACT: Research in the last two decades has shown that sound has direct influence on the living cell (although the mechanism of this influence is not understood), characterized by contraction of muscle fibers, stimulation of the growth of plants, etc. In this work pollen of Tradescantia paludosa was placed on a platform of a generator of mechanical vibrations attached to a tone generator, which was the source of sonic vibrations (frequencies 100—3000 cps) to which the pollen was subjected. The amplitude of movement of the vibrator in the range of operating frequencies varied from 0.4 to 0.013 µ. Pollen dried in an exsicuator with CaCl₂ was sown on cellophane sheets moistened with 1% agar and 12% sucrose and then placed in

Card 1/2

L-56008-65

ACCESSION NR: AP5015654

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a chamber with controlled humidity and temperature (22.5C). Grains began to sprout after 10-15 min. The length of the experiment and the first check was 16 min, and the second check was 1 hr. In all the cases the number of germinated experimental grains exceeded the number of germinated controls. Fifty-nine experiments were conducted at 1000 cps to compensate for the great variability of the material. It was concluded that germination of Tradescantia paludosa pollen is accelerated under the influence of sonic vibrations in the audible range. Stimulation is especially great when the pollen has a limited germinating capacity. This was proved by an experiment in which seeds were left for several days in the exsicuator (instead of one day as before). In 41 out of 61 experiments, pollen germinated under the influence of sound for 1 hr, but the controls didn't germinate at all. Because of the statistical heterogeneity of the material, a frequency characteristic of this effect was not obtained. Orig. art. has: 1 figure and 1 formula. [JS]

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR (Institute of Biophysics, AN SSSR); Fizicheskiy fakultet Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Physics Faculty of Moscow State University)

BUBMITTED: 20Mar63

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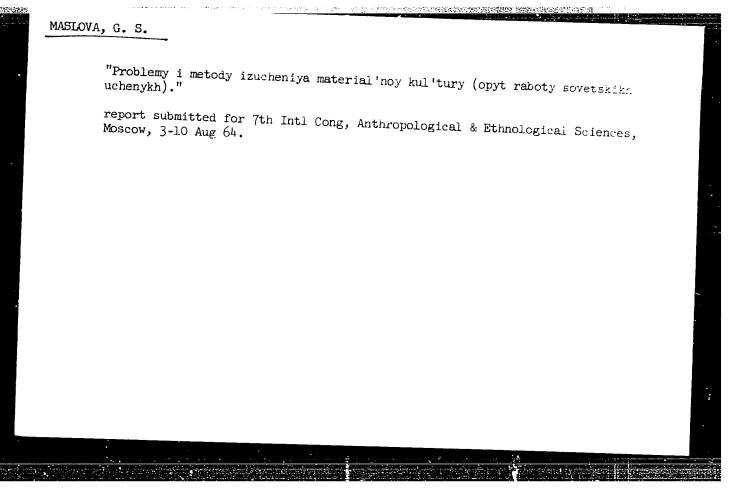
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ATD PRESS: 4034

- 1. MASLOVA, G. S.
- 2. USSR (600)
- 4. Volga Valley Farm Buildings
- 7. Russian buildings of the middle Volga region. Sov. etn. No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.



MASLOVA, G. V.

USSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biologiya, No 7, 1957, 26243

Author Inst

: Maslova, G.V.

Title

: A Microbiological Characterization of the Yeast-Like Fungus of Genus Trichosporon.

Orig Pub

: V sb.: Eksperim. i klinich. issledovaniya, II. L., Medgiz, 1956, 131-132

fedA

: No abstract.

Card 1/1

MASLOVA, GV

USSR Microbiology. Medical and Veterinary Microbiology.

F-6

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35785

Author: Glukhovtsev, B.V.; Kurushina, T.M.; Maslova, G.V.

Title : Characteristics of the Yeast Flora in Various

Skin Infections

Orig Pub: V. sb: Eksperim. i klinich. issledovaniia II, L, Medgiz, 1956, 335-336

Abstract: 6232 examinations of persons sick with various forms of skin diseases were conducted. In 306 cases various yeasts, primarily C.albicans (118) cases), and other representatives of the genus Candida (76 cases) were isolated. In 19% of the positive cases fungi of the specie Trichosporon were isolated. A supposition is expressed about

the identity of Trichosporon and Geotrichoides.

Card 1/1

MASLOVA, G. V.; GOLOVKIN, N. A.

*Biophysical studies of the state of fish muscle during chilling and cold storage."

Report presented at the 11th International Congress of Refrigeration, (IIR), Munich, West Germany, 27 Aug-4 Sep 63.

CIA-RDP86-00513R001032810004-2 "APPROVED FOR RELEASE: 06/14/2000

ACC NRIATEO35507

SOURCE CODE: UP/2531/66/000/185/0003/0014

AUTHOR: Berlyand, M. Ye. (Doctor of physico-mathematical sciences); Gerlichovich, Ye. L.; Madiona (De.

ORG: none

TITLE: Theory of the relationship of atmospheric aerosol concentrations to their flow on horizontal plates

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 185, 1966. Voprosy atmosfernoy diffuzii i zagryazneniya vozdukha (Problems of atmospheric diffusion and air pollution), 3-14

TOPIC TAGS: micrometeorology, atmospheric pollution, atmospheric diffusion, aerosol, aerosol posting, sampling place, meteorological computer, special purpose computer, computer calculation, gas flow

ABSTRACT: Results are presented of studies of the theory defining the settling of aerosols from the atmosphere onto horizontal collecting plates, the relationship between the amounts of pollutants collected on the plates and the actual pollutant concentration at the level of plate installations, the effects of plate dimensions and meteorological factors, etc. These plates usually have dimensions of several

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UDC: none

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tenths of a meter, are installed one to several meters above the ground surface, are coated with an adhesive, and are assumed to be absolutely absorbent. During an inflow of air, the aerosol particle distribution is disrupted, resulting in differences in pollutant concentrations on the plates and in the surrounding medium. Equations are derived to express the process of turbulent diffusion of aerosols above a plate; the fields of motion velocity and the exchange coefficients are taken into account.

The parabolic equation of turbulent diffusion of the aerosol was converted to a difference equation and solved numerically on a Ural-4 computer. This computer permitted storage of up to 400 points along x in a single layer, i.e., up to 400 values of the solution could be stored for fixed x. The computations were carried out for different values of the input quantities V (wind speed of inflowing air), K (the turbulence coefficient in the inflowing air), wo (the gravitational rate of aerosol settling), and L (plate length). The results indicated that turbulent aerosol flows have comparatively little dependence on changes in wo in the 0—0.1 m/sec range.

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The formulas derived permit estimation of the dependence of a vertical aerosol flow on plate dimensions and meteorological conditions, as characterized by values of the wind velocity and the exchange coefficient at the level of the plate. The dependence of the ratio of vertical aerosol flows to their concentrations at the height at which the plate is installed was established. The values obtained here are considerably lower than those of the simplest case, in which the flow around the plate is not considered, the horizontal component of the wind velocity u and the exchange coefficient k are not height dependent, and the vertical component w coincides with the gravitational rate of aerosol settling. Orig. art. has: 3 figures and 27 formulas.

[WA-50; CBE No. 14] [E0]

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 001

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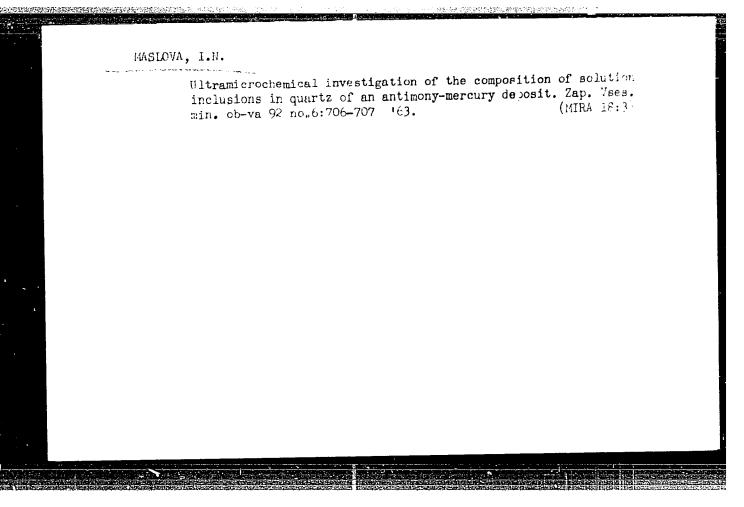
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Title

junctiva of the Eyelld as Studied by Electron

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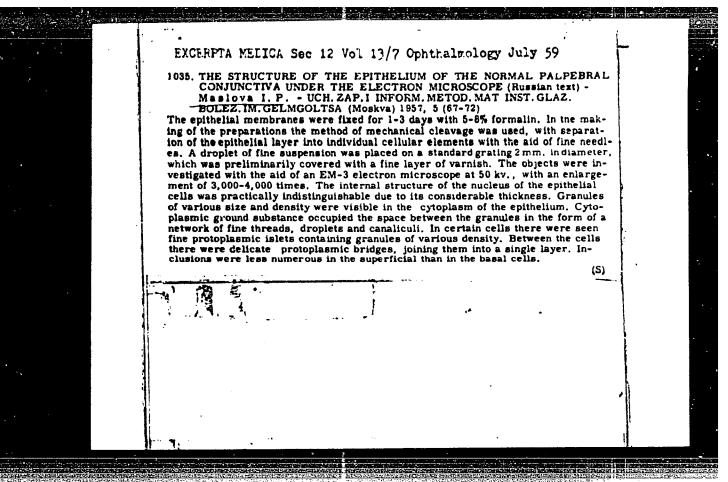
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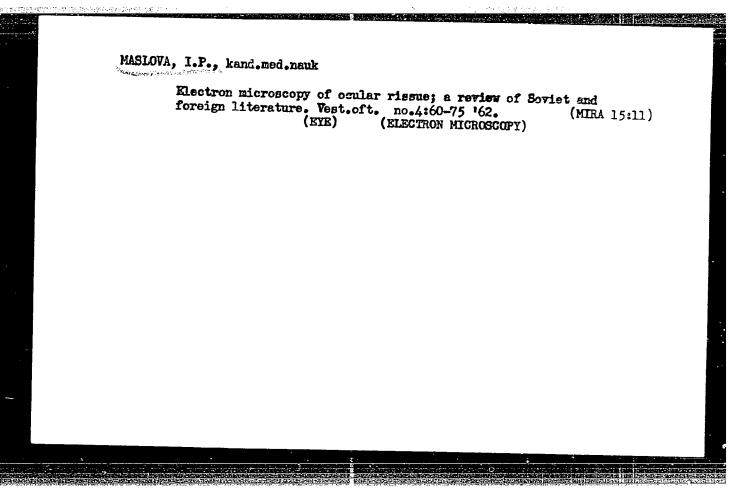
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seen.

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2. Zaveduyushchiy laboratoriyey sintega stabilizatorov dlya plastmass Tomskogo anuchno-issledovatel'skogo instituta khimikatov dlya polimerov (for Mikhaylov). 3. Rukovoditel' gruppy nauchno-tekhnicheskoy informatsii Tambovakogo| nauchno-issledovatel'skogo instituta khimikatov klya polimerov (for Maslova).

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